

Abstract

The present invention relates to a unilayer flexible performance fabric which may be fabricated into apparel and articles having high performance fibers, such as high tensile modulus fibers positioned within a base fabric in at least one preselected location only where required to import performance characteristics which are equal to or exceed the specifications for the garment. For example, if cut resistance is a requirement, performance fibers which provide such protection from this hazard would be used. Likewise, if abrasion resistance is intended for an apparel such as coveralls, only the knees and elbows would require the performance fiber. Thus, reducing the amount of expensive fibers normally used. The invented fabric is manufactured in a method in which the placement of the fabric in preselected locations is computer controlled.

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